



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**Inventor and Reissue Applicant:** Arun Srivastava

**Art Unit:** TO BE ASSIGNED

**Reissue of Patent No.:** 6,261,834

**Examiner:** TO BE ASSIGNED

**Assignee:** Research Corporation Technologies, Inc.

**Issued:** July 17, 2001

**Docket:** 8361z

**Reissue Application No.:** TO BE ASSIGNED

**For:** VECTOR FOR GENE THERAPY

Commissioner for Patents  
United States Patent and Trademark Office  
Alexandria, Virginia 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

It is requested that the following documents, which are also listed on the attached Form PTO-1449, be made of record in the reissue application of the above-identified patent.

1. Liu et al., "Indiscriminate Activity from the B19 Parvovirus P6 Promoter in Nonpermissive Cells", Virology 182: 361-364 (1991);
2. Ponnazhagan et al., "Transcriptional Transactivation of Parvovirus B19 Promoters in Nonpermissive Human Cells by Adenovirus Type 2", Journal of Virology, 69: 8096-8101 (1995);
3. Ponnazhagan et al., "Differential expression in human cells from the p6 promoter of human parvovirus B19 following plasmid transfection and recombinant adeno-associated virus 2 (AAV) infection: human megakaryocytic leukaemia cells are non-permissive for AAV infection", J. General Virology 77: 1111-1122 (1996);
4. Wang et al., "Parvovirus B19 promoter at map unit 6 confers autonomous replication competence and erythroid specificity to adeno-associated virus 2 in primary human hematopoietic progenitor cells", Proc. Natl. Acad. Sci. 92: 12416 (1995);

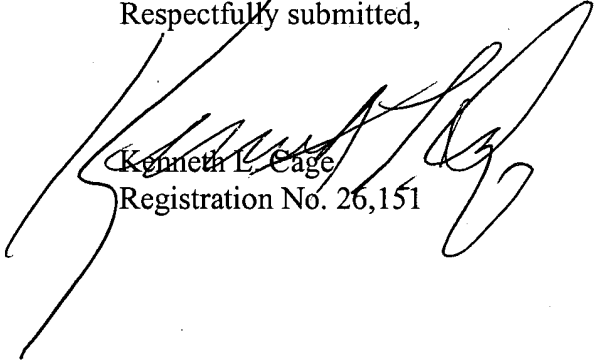
5. Kurpad et al., "Adeno-Associated Virus 2-Mediated Transduction and Erythroid Lineage-Restricted Expression from Parvovirus B19p6 Promoter in Primary Human Hematopoietic Progenitor Cells", J. Haematotherapy & Stem Cell Res. 8: 585 (1999);
6. Gareus et al., "Characteriation of *cis*-Acting and NS1 Protein-Responsive Elements in the p6 Promoter of Parvovirus B19", Journal of Virology 72: 609-616 (1998);
7. Ponnazhagan et al., "Lack of Site-Specific Integration of the Recombinant Adeno-Associated Virus 2 Genomes in Human Cells", Human Gene Therapy 8: 275-284 (1997);
8. Rutledge et al., "Adeno-Associated Virus Vector Integration Junctions", J. Virology 71: 8429-8436 (1997);
9. Omori et al., "Nontargeted Stable Integration of Recombinant Adeno-Associated Virus into Human Leukemia and Lymphoma Cell Lines as Evaluated by Fluorescence *in Situ* Hybridization", Human Gene Therapy 10: 537-543 (1999);
10. Miller et al., "Chromosomal effects of adeno-associated virus vector integration", Nature Genetics 30: 147-148 (2002);
11. Kearns et al., "Recombinant adeno-associated virus (AAV-CFTR) vectors do not integrate in a site-specific fashion in an immortalized epithelial cell line", Gene Therapy 3: 748-755 (1996);
12. Miao et al., "Nonrandom Transduction of Recombinant Adeno-Associated Virus Vectors in Mouse Hepatocytes In Vivo: Cell Cycling Does Not Influence Hepatocyte Transduction", Journal of Virology 3793-3803 (2000);
13. Tan et al., "Adeno-associated Virus 2-Mediated Transduction and Erythroid Lineage-Restricted Long-Term Expression of the Human  $\beta$ -Globin Gene in Hematopoietic Cells from Homozygous  $\beta$ -Thalassemic Mice", Molecular Therapy 3(6): 940-946 (2001);
14. Nakai et al., "Isolation of Recombinant Adeno-Associated Virus Vector-Cellular DNA Junctions from Mouse Liver", Journal of Virology 73(7): 5438-5447 (1999);
15. Surosky et al., "Adeno-Associated Virus Rep Proteins Target DNA Sequences to a Unique Locus in the Human Genome", Journal of Virology 71(10): 7951-7959 (1997);
16. Rinaudo et al., "Conditional Site-Specific Integration into Human Chromosome 19 by Using a Ligand-Dependent Chimeric Adeno-Associated Virus/Rep Protein", Journal of Virology 74(1): 281-294 (2000);

17. Philpott et al., "Efficient Integration of Recombinant Adeno-Associated Virus DNA Vectors Requires a p5-*rep* Sequence in *cis*", Journal of Virology 76(11): 5411-5421 (2002);
18. Yang et al., "Cellular Recombination Pathways and Viral Terminal Repeat Hairpin Structures Are Sufficient for Adeno-Associated Virus Integration In Vivo and In Vitro", Journal of Virology 71(12): 9231-9247 (1997); and

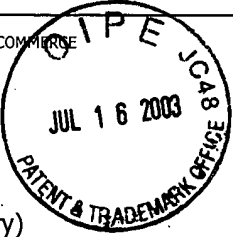
Applicants are submitting copies of the above-cited documents. All of the documents are in English, therefore, no translations are required.

Consideration of this Information Disclosure Statement is respectfully requested.

Respectfully submitted,

  
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Form PTO-1449 U.S. DEPARTMENT OF COMMERCE (REV. 7-80) PATENT AND TRADEMARK OFFICE				<b>Atty. Docket N .</b>		<b>Serial N .</b> U.S. Patent 6,261,834	
<b>LIST OF PRIOR ART CITED BY APPLICANT</b>  (Use several sheets if necessary)				<b>Applicant</b> Arun Srivastava			
<b>Filing Date</b> Issued: July 17, 2001				<b>Group</b>			

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL*		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (if appropriate)
	AA						
	AB						
	AC						
	AD						
	AE						

		Foreign Document Number	Date	Country	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
AF	Liu et al., "Indiscriminate Activity from the B19 Parvovirus P6 Promoter in Nonpermissive Cells", <u>Virology</u> 182: 361-364 (1991)	
AG	Ponnazhagan et al., "Transcriptional Transactivation of Parvovirus B19 Promoters in Nonpermissive Human Cells by Adenovirus Type 2", <u>Journal of Virology</u> , 69: 8096-8101 (1995)	
AH	Ponnazhagan et al., "Differential expression in human cells from the p6 promoter of human parvovirus B19 following plasmid transfection and recombinant adeno-associated virus 2 (AAV) infection: human megakaryocytic leukaemia cells are non-permissive for AAV infection", <u>J. General Virology</u> 77: 1111-1122 (1996)	
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\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	AF	Kurpad et al., "Adeno-Associated Virus 2-Mediated Transduction and Erythoid Lineage-Restricted Expression from Parvovirus B19p6 Promoter in Primary Human Hematopoietic Progenitor Cells", <u>J. Haematotherapy &amp; Stem Cell Res.</u> 8: 585 (1999)
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AI	Miao et al., "Nonrandom Transduction of Recombinant Adeno-Associated Virus Vectors in Mouse Hepatocytes In Vivo: Cell Cycling Does Not Influence Hepatocyte Transduction", <u>Journal of Virology</u> 3793-3803 (2000)

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